San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

APR 0 4 2013

Terry Coble
Covanta Stanislaus, Inc.
P O Box 278
Crows Landing, CA 95313

Re: Notice of Minor Title V Permit Modification
District Facility # N-2073
Project # N-1130690

Dear Mr. Coble:

Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued Authority to Construct N-2073-1-12 into the Title V operating permit. The proposed project was to add equipment to the existing ash handling system to separate non-ferrous metals. The proposed equipment includes: a screen (+/- 3/8"), two eddy current separators (ECSs), two non-ferrous storage bins, and associated conveying system.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued Authority to Construct N-2073-1-12, emission increases, application, and previous Title V permit. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill at (209) 557-6400.

Sincerely,

David Warner
Director of Permit Services

DW:JK/st

Enclosures

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com

Printed on recycled paper.

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

APR 0 4 2013

Gerardo C. Rios, Chief
Permits Office
Air Division
U.S. EPA - Region IX
75 Hawthorne St
San Francisco, CA 94105

Re: **Notice of Minor Title V Permit Modification**
District Facility # N-2073
Project # N-1130690

Dear Mr. Rios:

Enclosed for you to review is an application for minor Title V permit modification for the facility identified above. Covanta Stanislaus, Inc. is proposing a Title V minor permit modification to incorporate the recently issued Authority to Construct N-2073-1-12 into the Title V operating permit. The proposed project was to add equipment to the existing ash handling system to separate non-ferrous metals. The proposed equipment includes: a screen (+/- 3/8"), two eddy current separators (ECSs), two non-ferrous storage bins, and associated conveying system.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued Authority to Construct N-2073-1-12, emission increases, application, and previous Title V permit. Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill at (209) 557-6400.

Sincerely,

David Warner
Director of Permit Services

DW:JK/st

Enclosures

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com

Printed on recycled paper.

Title V APPLICATION REVIEW
Minor Modification

Facility Number:	N-2073
Facility Name:	Covanta Stanislaus, Inc.
Mailing Address:	P O Box 278 Crows Landing, CA 95313
Contact Name:	Terry D. Coble
Phone:	(209) 837-4423 ext. 211
Fax:	(209) 837-4604
Responsible Official:	Jeffery Ruoss
Title:	Facility Manager
Processing Staff:	Jag Kahlon
Project Number:	N-1130690
Date:	March 28, 2013

I. PROPOSAL

Covanta Stanislaus, Inc. has proposed to incorporate Authority to Construct (ATC) permit N-2073-1-12 into their Title V operating permit. The ATC permit was issued without Certificate of Conformity (COC). The proposed project was to add equipment to the existing ash handling system to separate non-ferrous metals. The proposed equipment includes: a screen (+/- 3/8"), two eddy current separators (ECSs), two non-ferrous storage bins, and associated conveying system.

The purpose of this document is to identify all applicable requirements, determine if the facility will comply with the applicable requirements, and to provide the legal and factual basis for revising/including new permit conditions that were established under Permit to Operate (PTO) N-2073-1-10.

II. FACILITY LOCATION

This facility is located at 4040 Fink Road, Crows Landing, California.

III. EQUIPMENT DESCRIPTION

N-2073-1-14:
POWER GENERATION SYSTEM: TWO 400 TON/DAY MUNICIPAL SOLID WASTE COMBUSTOR/BOILERS PRODUCING 21.5 MW OF ELECTRICITY EQUIPPED WITH DRY LIME SCRUBBERS, FLY ASH BAGHOUSE, AMMONIA INJECTION SYSTEM, LIME SLURRY INJECTION, ACTIVATED CARBON INJECTION SYSTEM, LIME AND

SODA AND CARBON SILOS WITH FILTER VENTS, WASTE RECEIVING, ASH CONVEYING, AND ASH RESIDUE ENCLOSURE

IV. SCOPE OF EPA AND PUBLIC REVIEW

The proposed project is a Minor Modification to the Title V permit because the applicant is not proposing to relax any source testing, monitoring, recordkeeping, or reporting requirements and the project is not an SB-288 or a Federal Major Modification under Rule 2201. Therefore, public review is not required.

V. APPLICABLE REQUIREMENTS

Rule 2520 Federally Mandated Operating Permits (6/21/01)

VI. DESCRIPTION OF PROPOSED MODIFICATIONS

The following conditions were added during project N-1123712 that resulted in ATC N-2073-1-12. None of the existing conditions is revised during the ATC project.

Condition #1 in ATC N-2073-1-12

- The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520]

The above condition required the applicant to file a Minor Modification application along with the compliance certification to incorporate the ATC into the Title V permit before operating the non-ferrous metal recovery equipment.

Condition #9 in ATC N-2073-1-12

- The total PM_{10} emissions from the ash handling system (including ferrous and non-ferrous material recovery operations) inside the ash enclosure shall not exceed 1.2 pounds in any one day and 402 pounds in any rolling 12 consecutive month period. The permittee shall maintain records sufficient to demonstrate compliance with these limits. These records shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201]

The above condition establishes daily and annual PM_{10} emissions limit for the ash handling system to validate the potential emissions analysis for PM_{10} emissions under Rule 2201.

Condition #10 in ATC N-2073-1-12

- The PM_{10} emissions from the non-ferrous material recovery equipment in the ash enclosure shall not exceed 183 pounds in any rolling 12 consecutive month period. The permittee shall maintain records sufficient to demonstrate compliance with this limit. These records shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201]

The above condition enforces the PM_{10} offset analysis for new equipment under Rule 2201.

VII. COMPLIANCE

In accordance with Rule 2520, 3.20, the proposed project:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;

2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;

3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;

4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include;

    a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and

    b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and

5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and

6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs (Appendix IV) ;
2. The source's suggested draft permit (Appendix I); and

3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used (Appendix III).

Compliance is expected with this Rule.

APPENDICES

Appendix I: Proposed Title V Operating Permit No. N-2073-1-14
Appendix II: Authority to Construct N-2073-1-12
Appendix III: Permit Application
Appendix IV: Emissions Change
Appendix V: Title V Permit to Operate N-2073-1-10

Appendix I
Proposed Title V Operating Permit No. N-2073-1-14

San Joaquin Valley
Air Pollution Control District

DRAFT

PERMIT UNIT: N-2073-1-14 **EXPIRATION DATE:** 10/31/2016

EQUIPMENT DESCRIPTION:
POWER GENERATION SYSTEM: TWO 400 TON/DAY MUNICIPAL SOLID WASTE COMBUSTOR/BOILERS PRODUCING 21.5 MW OF ELECTRICITY EQUIPPED WITH DRY LIME SCRUBBERS, FLY ASH BAGHOUSE, AMMONIA INJECTION SYSTEM, LIME SLURRY INJECTION, ACTIVATED CARBON INJECTION SYSTEM, LIME AND SODA AND CARBON SILOS WITH FILTER VENTS, WASTE RECEIVING, ASH CONVEYING, AND ASH RESIDUE ENCLOSURE

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities and systems installed or used to comply with the terms and conditions of this Permit to Operate shall be maintained in good working order and be operated as required to meet the conditions of this permit. Operator shall, on each boiler, continuously operate and maintain the following air pollution controls to minimize emissions: baghouse for the control of particulates; lime slurry dry scrubber for t he control of SO2 and acid gas emissions; and ammonia injection system for the control of NOx emissions. [District Rule 2080 & PSD SJ 86-03] Federally Enforceable Through Title V Permit
2. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
3. The baghouse shall have a maximum effective air-to-cloth ratio of 4:1 and shall be equipped with an automatic cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest individual combustion unit baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from any location other than designated vents on refuse receiving, processing or storage buildings at any time, except as provided in this permit to operate. Visible emissions shall be inspected quarterly under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit
6. Paved areas shall be kept free of visible dust at all times and shall be vacuum swept at least once every fourteen days. Records of vacuum sweeping shall be maintained and made available to the District upon request. [District Rule 4102]
7. The NOx control system shall be in full use whenever this equipment is fired with MSW. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The total PM10 emissions from the ash handling system (including ferrous and non-ferrous material recovery operations) inside the ash enclosure shall not exceed 1.2 pounds in any one day and 402 pounds in any rolling 12 consecutive month period. The permittee shall maintain records sufficient to demonstrate compliance with these limits. These records shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM10 emissions from the non-ferrous material recovery equipment in the ash enclosure shall not exceed 183 pounds in any rolling 12 consecutive month period. The permittee shall maintain records sufficient to demonstrate compliance with this limit. These records shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

DRAFT

10. The ash shall be handled in such a manner as to mitigate fugitive emissions to the maximum extent possible. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit

11. The facility shall not cause visible emissions from ash conveying systems, including transfer points, in excess of 5% of the observation period, as determined by performing EPA Method 22 on a quarterly basis. Fugitive ash emissions do not include emissions within a building, an enclosed ash conveyor, or during periods of maintenance and repair of the ash conveyor systems. [40 CFR 60.36b] Federally Enforceable Through Title V Permit

12. Fuel Oil #2, with a sulfur content not to exceed 0.25% by weight, may be used as necessary to maintain the minimum combustion zone temperature requirements and annual usage shall not exceed 1,108,321 gallons for each combustor. [District NSR Rule, 40 CFR 60. 44b(c) & PSD SJ 86-03] Federally Enforceable Through Title V Permit

13. A furnace roof temperature of 1,100 degrees F shall be stabilized, as measured by multiple thermocouples, to ensure that a minimum temperature of 1,800 degrees F is established above the grate prior to the ignition of MSW. [District NSR Rule] Federally Enforceable Through Title V Permit

14. During any period of time that MSW is burning on the grates, the combustion gas retention time shall be maintained at a minimum of one second, the combustion zone temperature shall be maintained at a minimum of 1,800 degrees F, and the furnace roof temperature shall be maintained at an average (4 hour arithmetic block) of 1,100 degrees F, except during periods of start-up, shutdown, and malfunction, as defined in 40 CFR 60.58b(a). [District NSR Rule] Federally Enforceable Through Title V Permit

15. Hazardous materials shall not be burned in this equipment. Hazardous materials are that portion of solid waste which, by reason of its composition or characteristics, is: (a) hazardous waste as defined in the Solid Waste Disposal Act, 42 USC section 6901 et. seq., and the regulations thereunder, the California Health & Safety Code, Div. 20, Chs. 6.5, 6.7, and 6.8 (section 25100 et. seq.), the California Code of Regulations, Title 22, Div. 4.5, and any similar or substituted legislation or regulations or amendments to the foregoing; (b) any other materials which any governmental agency or unit having appropriate jurisdiction shall determine from time to time is harmful, toxic, or dangerous, or otherwise ineligible for disposal through the facility; and (c) any material, other than residential or commercial solid waste of the type historically collected by the County and the City as acceptable for disposal into non-hazardous waste landfills, which would result in process residue being hazardous waste under (a) or (b) above. [District Rule 4102]

16. The facility shall develop and annually update a site-specific operating manual in accordance with 40 CFR 60.54b(e). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

17. Each operator and all maintenance personnel shall receive initial and annual training on the site-specific operating manual in accordance with 40 CFR 60.54b(f). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

18. The site-specific operating manual and operating manual training records shall be accessible to all operations and maintenance personnel and shall be made available to the enforcement agency upon request. [40 CFR 60.35b] Federally Enforceable Through Title V Permit

19. The District reserves the right to require the permittee to re-evaluate the health risk assessment if there is a significant change in population locations as projected in the currently approved health risk assessment, or new health data becomes available. [District Rule 4102]

20. During any 3-hour periods of startup, shutdown, and malfunction, the facility shall be exempt from emission limits identified in this permit which are based upon 40 CFR 60 Subpart Cb or Subpart Eb. This exemption shall not apply to CO emission limits of 40 CFR 60.53b(a) if the malfunction is a loss of boiler water level control. [District NSR Rule] Federally Enforceable Through Title V Permit

21. Opacity exhibited by the gases discharged to the atmosphere from each combustion unit, other than water vapor, shall not exceed 10 percent based on a six minute average as measured by EPA Method 9. [40 CFR 60.33b and 40 CFR Part 64] Federally Enforceable Through Title V Permit

22. The carbon monoxide (CO) emissions from each combustion unit shall not exceed 100 ppmv, dry, corrected to 7% O2, as measured utilizing EPA Methods 1-4 and 10. Compliance with this limit shall be determined based on a four hour block arithmetic average as defined in 40 CFR 60.51b. [District Rule 4352 and 40 CFR 60.34b] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

DRAFT

23. The NOx emissions from each combustion unit shall not exceed 200 ppmv, dry, corrected to 12% CO2 as measured by EPA Methods 1-4 and 7E. Compliance with this limit shall be determined based on an eight rolling hour average. [District NSR Rule, District Rule 4352, and 40 CFR 60.33b] Federally Enforceable Through Title V Permit

24. Either the SO2 emissions from each combustion unit shall not exceed 30 ppmv, dry, corrected to 12% CO2, based on an eight hour rolling average, or the SO2 removal efficiency shall be at least 80% as measured by EPA Methods 1-4 and 6C. The SO2 80% removal efficiency shall be based on the measurement of the inlet and outlet SO2 concentrations, corrected to 12% CO2. [District NSR Rule] Federally Enforceable Through Title V Permit

25. The SO2 emissions from each combustion unit shall not exceed 29 ppmv, dry, corrected to 12% CO2, or the SO2 removal efficiency shall be at least 75% (by weight or volume), whichever is less stringent as measured by EPA Methods 1-4 and 6C. Compliance with this limit shall be determined based on a 24-hour daily geometric mean. EPA method 19 shall be used to calculate the daily geometric average sulfur dioxide emission concentration and removal efficiency. [40 CFR 60.33b] Federally Enforceable Through Title V Permit

26. Particulate matter emissions from each combustion unit shall not exceed 0.0275 gr/dscf, corrected to 12% CO2, as measured by EPA Methods 1 through 5, including the condensable portion in the "back-half". [District NSR Rule] Federally Enforceable Through Title V Permit

27. Filterable particulate matter (i.e. front half) emissions from each combustion unit shall not exceed any of the following emission limits: 0.011 gr/dscf, corrected to 12% CO2; 25 milligrams/dscf, corrected to 7% O2; 0.10 lb/MMBtu heat input. Owner or operator shall conduct a performance test for particulate matter on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test, and must complete five performance tests in each 5-year calendar period) with EPA Method 1; EPA Method 3, 3A, or 3B; and EPA Method 5. The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 degrees C. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 run. [District NSR Rule, 40 CFR 60.33b, 40 CFR 60.38b, and 40 CFR 60.43b(d)(1)] Federally Enforceable Through Title V Permit

28. Filterable particulate matter emissions from each combustion unit shall not exceed 0.008 gr/dscf, corrected to 12% CO2, for the fraction of particles less than 2u in diameter, as measured by Andersen Cascade Impactor, Flow Sensor Multiclone or any other equivalent measurement as validated by EPA Method 301. [District NSR Rule] Federally Enforceable Through Title V Permit

29. Each combustion unit shall only be allowed to emit half of the total allowable (mass) emission rate for each pollutant. [District NSR Rule] Federally Enforceable Through Title V Permit

30. The CO emissions shall not exceed 800 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

31. The CO emissions shall not exceed 121.9 tons/yr. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

32. The NOx emissions shall not exceed 2,260 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

33. The NOx emissions shall not exceed 344.4 tons/year. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

34. The SO2 emissions shall not exceed 800 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

35. The SO2 emissions shall not exceed 121.9 tons/year. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

36. The PM emissions shall not exceed 475 pounds in any one day. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation E=3.59xP^0.62 if P is less than or equal to 30 tons per hour, or E=17.37xP^0.16 if P is greater than 30 tons per hour. Particulate emissions shall be no more than 0.1 lbs per 100 lbs of combustible refuse charged. [District Rules NSR, 4202, and 4203, 4.3] Federally Enforceable Through Title V Permit

DRAFT

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

37. The PM emissions shall not exceed 72.4 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
38. Emissions of combustion contaminants from each fuel burning equipment unit shall not exceed 0.1 gr/dscf, corrected to 12% CO2, and 10 lb/hr. Combustion contaminants are defined as total PM (filterable plus condensable) minus the ammonium salts (e.g. ammonium chloride, ammonium sulfate, ammonium bisulfate, etc.) present in the condensable PM fraction. A "fuel burning equipment unit" is the minimum number of fuel burning equipment required to operate simultaneously for the production of useful heat. Compliance with this emission limit shall be demonstrated annually by source test conducted according to EPA Methods 5 and 202 (or other APCO approved methods). Ammonium salts in the condensable PM fraction shall be determined by analysis of the condensable PM fraction by ion chromatography (or other APCO approved method). [District Rule 4301] Federally Enforceable Through Title V Permit
39. The THC emissions shall not exceed 96 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
40. The THC emissions shall not exceed 14.6 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
41. The THC emissions (as CH4) from each combustion unit shall not exceed 70 ppmv, dry, corrected to 12% CO2 as measured by EPA Methods 1-4 and 25A. [District NSR Rule] Federally Enforceable Through Title V Permit
42. Ammonia (NH3) breakthrough of the exhaust shall not exceed 50 ppmv, dry, as measured by BAAQMD Method ST-1B. The facility shall be exempt from this condition for periods of start-up, shutdown, and malfunction as defined in 40 CFR 60.58b(a). [District Rule 4102]
43. The Antimony emissions from each combustion unit shall not exceed 0.0315 g/s as measured by CARB Method 436. [District Rule 4102]
44. The Arsenic emissions from each combustion unit shall not exceed 0.0005 g/s as measured by CARB Method 436. [District Rule 4102]
45. The Beryllium emissions from each combustion unit shall not exceed 0.00005 g/s as measured by CARB Method 436. [District Rule 4102]
46. The Cadmium emissions from each combustion unit shall not exceed either of the following: 0.0013 g/s; 0.035 milligrams/dscf, corrected to 7% O2; each as measured by EPA Methods 1, 3, and 29 [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit
47. The Chromium +6 emissions from each combustion unit shall not exceed 0.00005 g/s as measured by CARB Method 436 (5% of the total chromium shall be considered to be hexavalent chromium). [District Rule 4102]
48. The Copper emissions from each combustion unit shall not exceed 0.155 g/s as measured by CARB Method 436. [District Rule 4102]
49. The Dioxin/Furan emissions from each combustion unit shall not exceed 30 ng/dscm (total mass), corrected to 7% O2, as measured by EPA Method 23. [40 CFR 60.33b] Federally Enforceable Through Title V Permit
50. The Dioxin/Furan emissions from each combustion unit shall not exceed 50 ng/s, based on the Department of Health Services toxic equivalent calculation. [District Rule 4102]
51. The Hydrogen Fluoride (HF) emissions from each combustion unit shall not exceed 0.05 g/s as measured by EPA Method 26. [District Rule 4102]
52. The Hydrogen Chloride (HCl) emissions from each combustion unit shall not exceed either of the following: 1.4 g/s; 29 ppmv or the HCl removal efficiency shall be at least 95% (by weight or volume), whichever is less stringent, corrected to 7% O2; each as measured by EPA Method 26. [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit
53. The Lead emissions from each combustion unit shall not exceed either of the following: 0.014 g/s; 0.400 milligrams/dscf, corrected to 7% O2; each as measured by EPA Methods 1, 3, and 29. [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit

DRAFT

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

54. The Manganese emissions from each combustion unit shall not exceed 0.055 g/s as measured by CARB Method 436. [District Rule 4102]

55. The Mercury emissions from each combustion unit shall not exceed 0.050 mg/dscm, corrected to 7% O2, or the mercury removal efficiency shall be at least 85% by weight, whichever is less stringent, as measured by EPA Methods 1, 3, and 29. [40 CFR 60.33b] Federally Enforceable Through Title V Permit

56. The Mercury emissions from each combustion unit shall not exceed 0.0025 g/s (3-hour average). [PSD ATC SJ 86-03 and District Rule 4102] Federally Enforceable Through Title V Permit

57. The Nickel emissions from each combustion unit shall not exceed 0.025 g/s as measured by CARB Method 436. [District Rule 4102]

58. The Selenium emissions from each combustion unit shall not exceed 0.055 g/s as measured by CARB Method 436. [District Rule 4102]

59. The Vanadium emissions from each combustion unit shall not exceed 0.15 g/s as measured by CARB Method 436. [District Rule 4102]

60. The Zinc emissions from each combustion unit shall not exceed 0.315 g/s as measured by CARB Method 436. [District Rule 4102]

61. The mass emission rates shall be calculated from the hourly stack concentrations and the volumetric flow rate using municipal solid waste Carbon Dioxide based F-factor of 1820 dscf/MMBtu (EPA Method 19, Table 19-2). [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

62. The total steam generated from each boiler shall not exceed 110% of the maximum demonstrated combustion unit load achieved in the most recent Dioxin/Furan performance test, as defined in 40 CFR 60.51b. [40 CFR 60.34b(b)] Federally Enforceable Through Title V Permit

63. The maximum flue gas temperature, measured at the particulate matter control device inlet from each boiler, shall not be higher than 17 deg. C (31 deg. F) above the maximum demonstrated particulate matter control device temperature as defined in 40 CFR 60.51b. [40 CFR 60.34b(b)] Federally Enforceable Through Title V Permit

64. The steam load and particulate matter control device inlet flue gas temperature limitations shall apply at all times except during the annual Dioxin/Furan performance test, the two weeks preceding the annual Dioxin/Furan performance test, and when the facility obtains a waiver in accordance with permission granted by the Administrator or the Air Pollution Control Officer. [40 CFR 60.53b(b)] Federally Enforceable Through Title V Permit

65. The ammonia (NH3) injection rate shall be measured and recorded continuously. [District NSR Rule] Federally Enforceable Through Title V Permit

66. The facility shall install, calibrate, maintain, and operate a carbon dioxide CEM at the economizer and stack locations of each combustion unit, in accordance with 40 CFR 60.58b(b) and Appendices B and F. [40 CFR 60.38b and District Rule 4352] Federally Enforceable Through Title V Permit

67. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.13 and Appendix B. [40 CFR 60.38b and 40 CFR Part 64] Federally Enforceable Through Title V Permit

68. The facility shall install, calibrate, maintain, and operate a sulfur dioxide CEM at the stack locations in accordance with 40 CFR 60.58b(e) and Appendices B and F. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

69. The facility shall install, calibrate, maintain, and operate a nitrogen oxides CEM at the stack locations in accordance with 40 CFR 60.58b(h) and Appendices B and F. [40 CFR 60.38b and District Rule 4352] Federally Enforceable Through Title V Permit

70. The facility shall install, calibrate, maintain, and operate a carbon monoxide CEM at the stack locations in accordance with 40 CFR 60.58b(i) and Appendices B and F. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

71. The facility shall install, calibrate, maintain, and operate a continuous steam flow monitoring and recording device and a device to measure temperature at the inlet of each particulate matter control device in accordance with 40 CFR 60.58b(i). [40 CFR 60.38b] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

DRAFT

72. The permittee shall be responsible for providing the District access, via telemetry, to the stored computerized data associated with the continuous emission monitoring system. [District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

73. Continuous monitoring and recording equipment shall be provided for the following: No. 2 fuel oil burning rate and temperature. Each combustion unit shall have sufficient monitors to demonstrate combustion unit temperature profile as required in condition 12 and flue gas temperature into the particulate matter control device as required by condition 61. [District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

74. In the event that monitoring or test data show that emissions from the facility exceed any emission limitation conditions of this Permit to Operate, the permittee shall take immediate corrective action to bring the plant's emissions within these limitations. [District NSR Rule] Federally Enforceable Through Title V Permit

75. Emissions in excess of those allowed by this permit shall be cause for the District to order an immediate reduction in fuel feed rate or to take other appropriate abatement action. [District Rule 2080] Federally Enforceable Through Title V Permit

76. The permittee shall notify the District of any emission violation by the next working day after such violation has occurred. [District Rule 2080] Federally Enforceable Through Title V Permit

77. Performance testing to demonstrate compliance with permit conditions shall be conducted annually (at least every calender year but no later than 12 months from previous performance testing). The main exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples using approved test methods. [District Rule 1081, 3.0, 4.0 & PSD SJ 86-03] Federally Enforceable Through Title V Permit

78. Performance testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any performance test, and a test plan must be submitted for approval 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit

79. The results of each performance test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit

80. Performance tests shall include a test of both combustion unit exhausts following the baghouse for the following parameters, corrected to 12% CO2 on a dry basis: Oxides of nitrogen emissions; Total hydrocarbons, as methane; Carbon monoxide; Sulfur dioxide; Concentrations of gaseous ammonia (NH3); and Exhaust flow rate, wet and dry. [District Rule 1081, 4.0]

81. Performance tests shall include: Total particulate matter emission concentration corrected to 12% CO2 and shall be conducted including the condensable portion in the "back half"; and Filterable particulate matter emission concentration corrected to 12% CO2 and shall be conducted including only "front-half". If the measured Filterable particulate matter emission concentration is greater than 0.008 gr/dscf, corrected to 12% CO2, testing shall be conducted to verify compliance with condition 26. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

82. Performance tests shall include a test of both combustion unit exhausts following the baghouse for the following parameters, corrected to 12% CO2 on a dry basis: Polynuclear aromatic hydrocarbons (Benzo-A-Pyrene, Benzo-E-Pyrene, Benzo-A-Anthracene, and Coronene and PCB); and Dioxins and Furans. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

83. The following Dioxin isomers & homologues shall be measured in both the combustion unit exhausts: 2,3,7,8 tetra CDD; total tetra CDD; 1,2,3,7,8 penta CDD; total penta CDD; 1,2,3,4,7,8 hexa CDD; 1,2,3,6,7,8 hexa CDD; 1,2,3,7,8,9 hexa CDD; total hexa CDD; 1,2,3,4,6,7,8 hepta CDD; total hepta CDD; total octa CDD. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

84. The following Furan isomers & homologues shall be measured in both the combustion unit exhausts: 2,3,7,8 tetra CDF; total tetra CDF; 1,2,3,7,8 penta CDF; 2,3,4,7,8 penta CDF; total penta CDF; 1,2,3,4,7,8 hexa CDF; 1,2,3,6,7,8 hexa CDF; 1,2,3,7,8,9 hexa CDF; 2,3,4,6,7,8 hexa CDF; total hexa CDF; 1,2,3,4,6,7,8 hepta CDF; 1,2,3,4,7,8,9 hepta CDF; total hepta CDF; total octa CDF. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

DRAFT

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

85. The facility may elect to alternate Dioxin/Furan testing on each stack, if the previous two years indicate Dioxin/Furan emissions levels are less than or equal to 15 ng/dscm total mass, corrected to 12% CO2. [40 CFR 60.38b and District Rule 4102] Federally Enforceable Through Title V Permit

86. Performance tests of both combustion unit exhausts shall be performed for HCl, corrected to 12% CO2 on a dry basis, and for the following heavy metals, corrected to 12% CO2 on a dry basis: Antimony, Arsenic, Beryllium, Cadmium, Total Chromium (5% of the total chromium shall be considered to be hexavalent chromium), Copper, Lead, Manganese, Mercury, Nickel, Selenium, Vanadium, and Zinc. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

87. A performance test of both combustion unit exhausts shall be performed for HF, corrected to 12% CO2 on a dry basis. [District Rule 4102]

88. Cooling tower drift shall not exceed 0.005 percent of the circulating water flow or a maximum annual drift emission rate of 1,090,000 kg/year as demonstrated by design calculations. Chromium compounds shall not be used as an additive in the cooling tower water. [District Rule 4102]

89. Soot blowers or super heater rappers shall be operated in a mode consistent with normal cleaning requirements of the system during the performance tests. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

90. The facility shall submit an annual report in accordance with 40 CFR 60.59b(g) by February 1 of each year following the calendar year in which the data were collected. [40 CFR 60.39b] Federally Enforceable Through Title V Permit

91. The facility shall submit semiannual reports within 31 days following the end of each 6 month period in accordance with 40 CFR 60.59b(h). [40 CFR 60.39b] Federally Enforceable Through Title V Permit

92. A monthly report summarizing the quantity of pollutant emissions of SO2, NOx, and CO, based on data from the CEM system, shall be included in the information required by following condition. Copies of the monthly reports prepared pursuant to this condition shall be sent to the district office by the 15th day of the following month. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

93. Permittee shall maintain a complete file containing all measurements, records, required monitoring data and support information. Support information includes copies of all reports required by this permit and for continuous monitoring instrumentation, and all calibration and maintenance records. This file shall include, but not be limited to: (a) Data collected from in-stack monitoring instruments; (b) Input rate records for all fuels burned; (c) Purchase records that indicate the sulfur content, by weight, of all fuel oil #2 purchased; (d) Results of all source tests; (e) All other air pollution system performance evaluations and records of calibration checks, calibration gas cylinder changes, adjustments and maintenance performed on all equipment (including CEM adjustment or maintenance). [District Rule 1070, 4.0 & PSD SJ 86-03] Federally Enforceable Through Title V Permit

94. Records shall be kept for each unit with the following: (a) Specific time of operation of each combustion unit; (b) Specific time of operation of the auxiliary burners; (c) Equipment breakdowns or malfunctions; (d) Exceedances of emission standards. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

95. The permittee shall follow all written maintenance procedures and schedules for the following: all emissions control equipment, combustion units, and monitoring equipment for measuring emission levels. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

96. Operating and maintenance manuals, subject to District review, shall be provided for the equipment covered by this permit. The permittee's operators shall be trained in the operation and maintenance of both fuel burning and pollution control equipment. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

97. If the Fuel Oil #2 is Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.25% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

98. If the Fuel Oil #2 is non-certified for sulfur content of less than 0.25% by weight, then the owner or operator shall determine the sulfur content of each delivery of Fuel Oil being fired. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

DRAFT

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

99. Permittee shall provide access to all sampling ports and platforms on boiler exhaust stacks in accordance with 40 CFR 60.8(e) and District Rule 1081 (as amended 12/16/93). [District Rule 1081, 3.3; & PSD SJ 86-03] Federally Enforceable Through Title V Permit

100. The SO2 emissions from both combustion units shall be more stringent of 35.6 lb/hr or 42 ppm, dry, corrected to 12% CO2, averaged over three hour period and more stringent of 33.3 lb/hr or 40 ppm, dry, corrected to 12% CO2, averaged over a 24 hour period. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

101. The NOx emissions from both combustion units shall be more stringent of 107 lb/hr or 175 ppm, dry, corrected to 12% CO2, averaged over three hour period and more stringent of 100 lb/hr or 165 ppm, dry, corrected to 12% CO2, averaged over a 24 hour period. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

102. The CO emissions from both combustion units shall be 33.3 lb/hr or 400 ppm, dry, corrected to 12% CO2 (3-hour average). [PSD SJ 86-03] Federally Enforceable Through Title V Permit

103. The Mercury emissions from both combustion units shall not exceed 0.083 lb/hr (3-hour average) as measured by EPA Method 101. Upon EPA approval of a change to the facility PSD permit allowing Method 29 to be used in place of Method 101, Method 29 may be used to measure Mercury emissions. (40 CFR Part 61, Appendix B). [PSD SJ 86-03] Federally Enforceable Through Title V Permit

104. Permittee shall submit a written report of all excess emissions to EPA (Attn: A-3-3) for every calendar quarter. The report shall include the following: (a) the magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions. (b) Specific identification of each time period of excess emissions that occurs during startups, shutdowns, and malfunctions of furnace/boiler system. The nature and cause of malfunction (if known) and corrective action taken or preventive measures adopted shall be reported. (c) The date and time identifying each period during which continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs and adjustments. (d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in report. (e) Excess emissions shall be defined as any three-hour period during which the average emissions of NOx, SO2, and/or CO, as measured by continuous monitoring system exceeds the NOx, SO2, and/or CO emission limit set for each of the pollutants. (f) Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for purposes of PSD permit. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

105. The calculation of annual emissions shall commence with the submission of the first fourth-quarter report, and will continue to be calculated and submitted with each successive quarterly report. The annual emissions shall be computed on a daily (i.e. 24 hours) basis and shall be running total of the latest 8,760 hours. The quarterly reports shall contain highest annual emissions computed for each week in the quarter, as well as all excesses of the annual emissions limits. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

106. Permittee shall meet all applicable requirements of Subparts A, Db, and E of 40 CFR 60. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

107. Permittee shall comply with following activated carbon mass feed requirements: (1) During the initial performance test and each subsequent performance test for dioxins/furans and mercury, as applicable, the permittee shall calculate and record an average carbon mass feed rate in pounds per hour being employed based on load cell measurements of carbon feed during the test; (2) During operation of the facility, the carbon injection mass feed rate must be measured using load cells, calculated and recorded on an eight (8) hour block average basis, and must equal or exceed the level(s) documented during the most recent performance tests for dioxins/furans and mercury. When calculating the eight (8) hour block average, exclude the hours when the combustion unit is not operational and include the hours when the combustion unit is operating but the carbon feed system is not working properly. [40 CFR 60.38b & 40 CFR 60.58b(m)(1), (2)] Federally Enforceable Through Title V Permit

108. The permittee shall estimate the total carbon usage of the plant (kilograms or pounds) for each calendar quarter by two independent methods, according to the following procedures: (1) The weight of carbon delivered to the plant. (2) The permittee shall estimate the average carbon mass feed rate for each during the operation of each combustion unit, and sum the results for both units at the plant for the total number of hours of operation during the calendar quarter. [40 CFR 60.38b & 40 CFR 60.58b(m)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

DRAFT

109. Should additional guidance related to the June 3, 1986 PSD remand, applicable to PSD permit action, be developed, the Permittee shall provide to EPA any such analysis, data, or demonstration of compliance with the other requirements within the time required by the guidance. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

110. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in Section VIII of these conditions. In addition, the Regional Administrator shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under Section IX of these conditions, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

111. Facility shall operate only when a fully certified chief facility operator or fully certified shift supervisor is on duty, except as allowed under 40 CFR 60.54b(c)(2). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

112. All chief facility operators, shift supervisors, and control room operators shall have completed the EPA or State municipal waste combustor operator training course. [40 CFR 60.35b] Federally Enforceable Through Title V Permit

113. Owner or operator shall conduct a performance test for opacity on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test, and must complete five performance tests in each 5-year calendar period) using EPA Method 9 and the average of three test runs to determine compliance. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

114. Permittee shall establish parameters for the differential pressure across the baghouse filter, which provides a reasonable assurance of ongoing compliance with emission limitations stated in this permit. The initial parameters shall be established using manufacturer/supplier recommendations and by correlating with opacity readings and source test results. These parameters shall be reviewed annually and revised if necessary based on PM10 source test result data, historical operating data and manufacturer/supplier recommendations. [40 CFR Part 64] Federally Enforceable Through Title V Permit

115. The baghouse differential operating pressure shall be monitored and recorded on each day the solid waste combustors/boilers operate. The permittee shall compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit

116. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit

117. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit

118. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit

119. During any 96-hour periods of startup or 12-hour periods of shutdown, the facility shall be exempt from emission limits identified in this permit which are based upon District Rule 4352. [District Rule 4352] Federally Enforceable Through Title V Permit

120. Within 6 months of the renewed Title V permit being issued, permittee shall apply for an Authority to Construct (ATC) and fully implement one of the following: 1) modify post-control PM10 emissions rate to less than 70 tons/yr or 2) install on the baghouse an air leak detection system or continuous PM10 emissions monitor. [40 CFR Part 64] Federally Enforceable Through Title V Permit

DRAFT

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

121. Upon detecting any excursion from the 10% opacity limit, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit

122. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column [40 CFR Part 64] Federally Enforceable Through Title V Permit

123. The baghouse differential operating pressure shall be monitored and recorded on each day the solid waste combustors/boilers operate. The permittee shall compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit

124. On and after January 1, 2013, permittee shall demonstrate compliance with Table 1 emission limits and all applicable requirements of District Rule 4352 (December 15, 2011). [District Rule 4352] Federally Enforceable Through Title V Permit

125. Each time SO2 emissions from each combustion unit exceeds 30 ppmv, dry, corrected to 12% CO2, based on an eight-hour rolling average, facility shall demonstrate that SO2 removal efficiency is at least 80% as measured by EPA Methods 1-4 and 6C, based on the measurement of the inlet and outlet SO2 concentrations. [40 CFR Part 64]

DRAFT

Appendix II
Authority to Construct N-2073-1-12

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: N-2073-1-12 **ISSUANCE DATE:** 03/05/2013

LEGAL OWNER OR OPERATOR: COVANTA STANISLAUS, INC
MAILING ADDRESS: PO BOX 278
CROWS LANDING, CA 95313

LOCATION: 4040 FINK RD
CROWS LANDING, CA 95313

EQUIPMENT DESCRIPTION:
MODIFICATION OF POWER GENERATION SYSTEM: TWO 400 TON/DAY MUNICIPAL SOLID WASTE COMBUSTOR/BOILERS PRODUCING 21.5 MW OF ELECTRICITY EQUIPPED WITH DRY LIME SCRUBBERS, FLY ASH BAGHOUSE, AMMONIA INJECTION SYSTEM, LIME SLURRY INJECTION, ACTIVATED CARBON INJECTION SYSTEM, LIME AND SODA AND CARBON SILOS WITH FILTER VENTS, WASTE RECEIVING, ASH CONVEYING, AND ASH RESIDUE ENCLOSURE: TO INCLUDE AN EQUIPMENT TO SEPARATE NON-FERROUS METALS

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520]
2. All equipment, facilities and systems installed or used to comply with the terms and conditions of this Permit to Operate shall be maintained in good working order and be operated as required to meet the conditions of this permit. Operator shall, on each boiler, continuously operate and maintain the following air pollution controls to minimize emissions: baghouse for the control of particulates; lime slurry dry scrubber for t he control of SO2 and acid gas emissions; and ammonia injection system for the control of NOx emissions. [District Rule 2080 & PSD SJ 86-03] Federally Enforceable Through Title V Permit
3. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
4. The baghouse shall have a maximum effective air-to-cloth ratio of 4:1 and shall be equipped with an automatic cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services
N-2073-1-12 Mar 5 2013 9:11AM – KAHLON Joint Inspection NOT Required

Printed on recycled paper.

5. Replacement bags numbering at least 10% of the total number of bags in the largest individual combustion unit baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit

6. There shall be no visible emissions from any location other than designated vents on refuse receiving, processing or storage buildings at any time, except as provided in this permit to operate. Visible emissions shall be inspected quarterly under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit

7. Paved areas shall be kept free of visible dust at all times and shall be vacuum swept at least once every fourteen days. Records of vacuum sweeping shall be maintained and made available to the District upon request. [District Rule 4102]

8. The NOx control system shall be in full use whenever this equipment is fired with MSW. [District NSR Rule] Federally Enforceable Through Title V Permit

9. The total PM10 emissions from the ash handling system (including ferrous and non-ferrous material recovery operations) inside the ash enclosure shall not exceed 1.2 pounds in any one day and 402 pounds in any rolling 12 consecutive month period. The permittee shall maintain records sufficient to demonstrate compliance with these limits. These records shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201]

10. The PM10 emissions from the non-ferrous material recovery equipment in the ash enclosure shall not exceed 183 pounds in any rolling 12 consecutive month period. The permittee shall maintain records sufficient to demonstrate compliance with this limit. These records shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201]

11. The ash shall be handled in such a manner as to mitigate fugitive emissions to the maximum extent possible. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit

12. The facility shall not cause visible emissions from ash conveying systems, including transfer points, in excess of 5% of the observation period, as determined by performing EPA Method 22 on a quarterly basis. Fugitive ash emissions do not include emissions within a building, an enclosed ash conveyor, or during periods of maintenance and repair of the ash conveyor systems. [40 CFR 60.36b] Federally Enforceable Through Title V Permit

13. Fuel Oil #2, with a sulfur content not to exceed 0.25% by weight, may be used as necessary to maintain the minimum combustion zone temperature requirements and annual usage shall not exceed 1,108,321 gallons for each combustor. [District NSR Rule, 40 CFR 60. 44b(c) & PSD SJ 86-03] Federally Enforceable Through Title V Permit

14. A furnace roof temperature of 1,100 degrees F shall be stabilized, as measured by multiple thermocouples, to ensure that a minimum temperature of 1,800 degrees F is established above the grate prior to the ignition of MSW. [District NSR Rule] Federally Enforceable Through Title V Permit

15. During any period of time that MSW is burning on the grates, the combustion gas retention time shall be maintained at a minimum of one second, the combustion zone temperature shall be maintained at a minimum of 1,800 degrees F, and the furnace roof temperature shall be maintained at an average (4 hour arithmetic block) of 1,100 degrees F, except during periods of start-up, shutdown, and malfunction, as defined in 40 CFR 60.58b(a). [District NSR Rule] Federally Enforceable Through Title V Permit

16. Hazardous materials shall not be burned in this equipment. Hazardous materials are that portion of solid waste which, by reason of its composition or characteristics, is: (a) hazardous waste as defined in the Solid Waste Disposal Act, 42 USC section 6901 et. seq., and the regulations thereunder, the California Health & Safety Code, Div. 20, Chs. 6.5, 6.7, and 6.8 (section 25100 et. seq.), the California Code of Regulations, Title 22, Div. 4.5, and any similar or substituted legislation or regulations or amendments to the foregoing; (b) any other materials which any governmental agency or unit having appropriate jurisdiction shall determine from time to time is harmful, toxic, or dangerous, or otherwise ineligible for disposal through the facility; and (c) any material, other than residential or commercial solid waste of the type historically collected by the County and the City as acceptable for disposal into non-hazardous waste landfills, which would result in process residue being hazardous waste under (a) or (b) above. [District Rule 4102]

17. The facility shall develop and annually update a site-specific operating manual in accordance with 40 CFR 60.54b(e). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

18. Each operator and all maintenance personnel shall receive initial and annual training on the site-specific operating manual in accordance with 40 CFR 60.54b(f). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

19. The site-specific operating manual and operating manual training records shall be accessible to all operations and maintenance personnel and shall be made available to the enforcement agency upon request. [40 CFR 60.35b] Federally Enforceable Through Title V Permit

20. The District reserves the right to require the permittee to re-evaluate the health risk assessment if there is a significant change in population locations as projected in the currently approved health risk assessment, or new health data becomes available. [District Rule 4102]

21. During any 3-hour periods of startup, shutdown, and malfunction, the facility shall be exempt from emission limits identified in this permit which are based upon 40 CFR 60 Subpart Cb or Subpart Eb. This exemption shall not apply to CO emission limits of 40 CFR 60.53b(a) if the malfunction is a loss of boiler water level control. [District NSR Rule] Federally Enforceable Through Title V Permit

22. Opacity exhibited by the gases discharged to the atmosphere from each combustion unit, other than water vapor, shall not exceed 10 percent based on a six minute average as measured by EPA Method 9. [40 CFR 60.33b and 40 CFR Part 64] Federally Enforceable Through Title V Permit

23. The carbon monoxide (CO) emissions from each combustion unit shall not exceed 100 ppmv, dry, corrected to 7% O2, as measured utilizing EPA Methods 1-4 and 10. Compliance with this limit shall be determined based on a four hour block arithmetic average as defined in 40 CFR 60.51b. [District Rule 4352 and 40 CFR 60.34b] Federally Enforceable Through Title V Permit

24. The NOx emissions from each combustion unit shall not exceed 200 ppmv, dry, corrected to 12% CO2 as measured by EPA Methods 1-4 and 7E. Compliance with this limit shall be determined based on an eight rolling hour average. [District NSR Rule, District Rule 4352, and 40 CFR 60.33b] Federally Enforceable Through Title V Permit

25. Either the SO2 emissions from each combustion unit shall not exceed 30 ppmv, dry, corrected to 12% CO2, based on an eight hour rolling average, or the SO2 removal efficiency shall be at least 80% as measured by EPA Methods 1-4 and 6C. The SO2 80% removal efficiency shall be based on the measurement of the inlet and outlet SO2 concentrations, corrected to 12% CO2. [District NSR Rule] Federally Enforceable Through Title V Permit

26. The SO2 emissions from each combustion unit shall not exceed 29 ppmv, dry, corrected to 12% CO2, or the SO2 removal efficiency shall be at least 75% (by weight or volume), whichever is less stringent as measured by EPA Methods 1-4 and 6C. Compliance with this limit shall be determined based on a 24-hour daily geometric mean. EPA method 19 shall be used to calculate the daily geometric average sulfur dioxide emission concentration and removal efficiency. [40 CFR 60.33b] Federally Enforceable Through Title V Permit

27. Particulate matter emissions from each combustion unit shall not exceed 0.0275 gr/dscf, corrected to 12% CO2, as measured by EPA Methods 1 through 5, including the condensable portion in the "back-half". [District NSR Rule] Federally Enforceable Through Title V Permit

28. Filterable particulate matter (i.e. front half) emissions from each combustion unit shall not exceed any of the following emission limits: 0.011 gr/dscf, corrected to 12% CO2; 25 milligrams/dscf, corrected to 7% O2; 0.10 lb/MMBtu heat input. Owner or operator shall conduct a performance test for particulate matter on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test, and must complete five performance tests in each 5-year calendar period) with EPA Method 1; EPA Method 3, 3A, or 3B; and EPA Method 5. The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 degrees C. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 run. [District NSR Rule, 40 CFR 60.33b, 40 CFR 60.38b, and 40 CFR 60.43b(d)(1)] Federally Enforceable Through Title V Permit

29. Filterable particulate matter emissions from each combustion unit shall not exceed 0.008 gr/dscf, corrected to 12% CO2, for the fraction of particles less than 2u in diameter, as measured by Andersen Cascade Impactor, Flow Sensor Multiclone or any other equivalent measurement as validated by EPA Method 301. [District NSR Rule] Federally Enforceable Through Title V Permit

30. Each combustion unit shall only be allowed to emit half of the total allowable (mass) emission rate for each pollutant. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

31. The CO emissions shall not exceed 800 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

32. The CO emissions shall not exceed 121.9 tons/yr. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

33. The NOx emissions shall not exceed 2,260 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

34. The NOx emissions shall not exceed 344.4 tons/year. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

35. The SO2 emissions shall not exceed 800 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

36. The SO2 emissions shall not exceed 121.9 tons/year. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

37. The PM emissions shall not exceed 475 pounds in any one day. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation E=3.59xP^0.62 if P is less than or equal to 30 tons per hour, or E=17.37xP^0.16 if P is greater than 30 tons per hour. Particulate emissions shall be no more than 0.1 lbs per 100 lbs of combustible refuse charged. [District Rules NSR, 4202, and 4203, 4.3] Federally Enforceable Through Title V Permit

38. The PM emissions shall not exceed 72.4 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit

39. Emissions of combustion contaminants from each fuel burning equipment unit shall not exceed 0.1 gr/dscf, corrected to 12% CO2, and 10 lb/hr. Combustion contaminants are defined as total PM (filterable plus condensable) minus the ammonium salts (e.g. ammonium chloride, ammonium sulfate, ammonium bisulfate, etc.) present in the condensable PM fraction. A "fuel burning equipment unit" is the minimum number of fuel burning equipment required to operate simultaneously for the production of useful heat. Compliance with this emission limit shall be demonstrated annually by source test conducted according to EPA Methods 5 and 202 (or other APCO approved methods). Ammonium salts in the condensable PM fraction shall be determined by analysis of the condensable PM fraction by ion chromatography (or other APCO approved method). [District Rule 4301] Federally Enforceable Through Title V Permit

40. The THC emissions shall not exceed 96 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

41. The THC emissions shall not exceed 14.6 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit

42. The THC emissions (as CH4) from each combustion unit shall not exceed 70 ppmv, dry, corrected to 12% CO2 as measured by EPA Methods 1-4 and 25A. [District NSR Rule] Federally Enforceable Through Title V Permit

43. Ammonia (NH3) breakthrough of the exhaust shall not exceed 50 ppmv, dry, as measured by BAAQMD Method ST-1B. The facility shall be exempt from this condition for periods of start-up, shutdown, and malfunction as defined in 40 CFR 60.58b(a). [District Rule 4102]

44. The Antimony emissions from each combustion unit shall not exceed 0.0315 g/s as measured by CARB Method 436. [District Rule 4102]

45. The Arsenic emissions from each combustion unit shall not exceed 0.0005 g/s as measured by CARB Method 436. [District Rule 4102]

46. The Beryllium emissions from each combustion unit shall not exceed 0.00005 g/s as measured by CARB Method 436. [District Rule 4102]

47. The Cadmium emissions from each combustion unit shall not exceed either of the following: 0.0013 g/s; 0.035 milligrams/dscf, corrected to 7% O2; each as measured by EPA Methods 1, 3, and 29 [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit

48. The Chromium +6 emissions from each combustion unit shall not exceed 0.00005 g/s as measured by CARB Method 436 (5% of the total chromium shall be considered to be hexavalent chromium). [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

49. The Copper emissions from each combustion unit shall not exceed 0.155 g/s as measured by CARB Method 436. [District Rule 4102]

50. The Dioxin/Furan emissions from each combustion unit shall not exceed 30 ng/dscm (total mass), corrected to 7% O2, as measured by EPA Method 23. [40 CFR 60.33b] Federally Enforceable Through Title V Permit

51. The Dioxin/Furan emissions from each combustion unit shall not exceed 50 ng/s, based on the Department of Health Services toxic equivalent calculation. [District Rule 4102]

52. The Hydrogen Fluoride (HF) emissions from each combustion unit shall not exceed 0.05 g/s as measured by EPA Method 26. [District Rule 4102]

53. The Hydrogen Chloride (HCl) emissions from each combustion unit shall not exceed either of the following: 1.4 g/s; 29 ppmv or the HCl removal efficiency shall be at least 95% (by weight or volume), whichever is less stringent, corrected to 7% O2; each as measured by EPA Method 26. [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit

54. The Lead emissions from each combustion unit shall not exceed either of the following: 0.014 g/s; 0.400 milligrams/dscf, corrected to 7% O2; each as measured by EPA Methods 1, 3, and 29. [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit

55. The Manganese emissions from each combustion unit shall not exceed 0.055 g/s as measured by CARB Method 436. [District Rule 4102]

56. The Mercury emissions from each combustion unit shall not exceed 0.050 mg/dscm, corrected to 7% O2, or the mercury removal efficiency shall be at least 85% by weight, whichever is less stringent, as measured by EPA Methods 1, 3, and 29. [40 CFR 60.33b] Federally Enforceable Through Title V Permit

57. The Mercury emissions from each combustion unit shall not exceed 0.0025 g/s (3-hour average). [PSD ATC SJ 86-03 and District Rule 4102] Federally Enforceable Through Title V Permit

58. The Nickel emissions from each combustion unit shall not exceed 0.025 g/s as measured by CARB Method 436. [District Rule 4102]

59. The Selenium emissions from each combustion unit shall not exceed 0.055 g/s as measured by CARB Method 436. [District Rule 4102]

60. The Vanadium emissions from each combustion unit shall not exceed 0.15 g/s as measured by CARB Method 436. [District Rule 4102]

61. The Zinc emissions from each combustion unit shall not exceed 0.315 g/s as measured by CARB Method 436. [District Rule 4102]

62. The mass emission rates shall be calculated from the hourly stack concentrations and the volumetric flow rate using municipal solid waste Carbon Dioxide based F-factor of 1820 dscf/MMBtu (EPA Method 19, Table 19-2). [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

63. The total steam generated from each boiler shall not exceed 110% of the maximum demonstrated combustion unit load achieved in the most recent Dioxin/Furan performance test, as defined in 40 CFR 60.51b. [40 CFR 60.34b(b)] Federally Enforceable Through Title V Permit

64. The maximum flue gas temperature, measured at the particulate matter control device inlet from each boiler, shall not be higher than 17 deg. C (31 deg. F) above the maximum demonstrated particulate matter control device temperature as defined in 40 CFR 60.51b. [40 CFR 60.34b(b)] Federally Enforceable Through Title V Permit

65. The steam load and particulate matter control device inlet flue gas temperature limitations shall apply at all times except during the annual Dioxin/Furan performance test, the two weeks preceding the annual Dioxin/Furan performance test, and when the facility obtains a waiver in accordance with permission granted by the Administrator or the Air Pollution Control Officer. [40 CFR 60.53b(b)] Federally Enforceable Through Title V Permit

66. The ammonia (NH3) injection rate shall be measured and recorded continuously. [District NSR Rule] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

67. The facility shall install, calibrate, maintain, and operate a carbon dioxide CEM at the economizer and stack locations of each combustion unit, in accordance with 40 CFR 60.58b(b) and Appendices B and F. [40 CFR 60.38b and District Rule 4352] Federally Enforceable Through Title V Permit

68. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.13 and Appendix B. [40 CFR 60.38b and 40 CFR Part 64] Federally Enforceable Through Title V Permit

69. The facility shall install, calibrate, maintain, and operate a sulfur dioxide CEM at the stack locations in accordance with 40 CFR 60.58b(e) and Appendices B and F. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

70. The facility shall install, calibrate, maintain, and operate a nitrogen oxides CEM at the stack locations in accordance with 40 CFR 60.58b(h) and Appendices B and F. [40 CFR 60.38b and District Rule 4352] Federally Enforceable Through Title V Permit

71. The facility shall install, calibrate, maintain, and operate a carbon monoxide CEM at the stack locations in accordance with 40 CFR 60.58b(i) and Appendices B and F. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

72. The facility shall install, calibrate, maintain, and operate a continuous steam flow monitoring and recording device and a device to measure temperature at the inlet of each particulate matter control device in accordance with 40 CFR 60.58b(i). [40 CFR 60.38b] Federally Enforceable Through Title V Permit

73. The permittee shall be responsible for providing the District access, via telemetry, to the stored computerized data associated with the continuous emission monitoring system. [District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

74. Continuous monitoring and recording equipment shall be provided for the following: No. 2 fuel oil burning rate and temperature. Each combustion unit shall have sufficient monitors to demonstrate combustion unit temperature profile as required in condition 12 and flue gas temperature into the particulate matter control device as required by condition 61. [District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

75. In the event that monitoring or test data show that emissions from the facility exceed any emission limitation conditions of this Permit to Operate, the permittee shall take immediate corrective action to bring the plant's emissions within these limitations. [District NSR Rule] Federally Enforceable Through Title V Permit

76. Emissions in excess of those allowed by this permit shall be cause for the District to order an immediate reduction in fuel feed rate or to take other appropriate abatement action. [District Rule 2080] Federally Enforceable Through Title V Permit

77. The permittee shall notify the District of any emission violation by the next working day after such violation has occurred. [District Rule 2080] Federally Enforceable Through Title V Permit

78. Performance testing to demonstrate compliance with permit conditions shall be conducted annually (at least every calender year but no later than 12 months from previous performance testing). The main exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples using approved test methods. [District Rule 1081, 3.0, 4.0 & PSD SJ 86-03] Federally Enforceable Through Title V Permit

79. Performance testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any performance test, and a test plan must be submitted for approval 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit

80. The results of each performance test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit

81. Performance tests shall include a test of both combustion unit exhausts following the baghouse for the following parameters, corrected to 12% CO2 on a dry basis: Oxides of nitrogen emissions; Total hydrocarbons, as methane; Carbon monoxide; Sulfur dioxide; Concentrations of gaseous ammonia (NH3); and Exhaust flow rate, wet and dry. [District Rule 1081, 4.0]

CONDITIONS CONTINUE ON NEXT PAGE

82. Performance tests shall include: Total particulate matter emission concentration corrected to 12% CO2 and shall be conducted including the condensable portion in the "back half"; and Filterable particulate matter emission concentration corrected to 12% CO2 and shall be conducted including only "front-half". If the measured Filterable particulate matter emission concentration is greater than 0.008 gr/dscf, corrected to 12% CO2, testing shall be conducted to verify compliance with condition 26. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

83. Performance tests shall include a test of both combustion unit exhausts following the baghouse for the following parameters, corrected to 12% CO2 on a dry basis: Polynuclear aromatic hydrocarbons (Benzo-A-Pyrene, Benzo-E-Pyrene, Benzo-A-Anthracene, and Coronene and PCB); and Dioxins and Furans. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

84. The following Dioxin isomers & homologues shall be measured in both the combustion unit exhausts: 2,3,7,8 tetra CDD; total tetra CDD; 1,2,3,7,8 penta CDD; total penta CDD; 1,2,3,4,7,8 hexa CDD; 1,2,3,6,7,8 hexa CDD; 1,2,3,7,8,9 hexa CDD; total hexa CDD; 1,2,3,4,6,7,8 hepta CDD; total hepta CDD; total octa CDD. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

85. The following Furan isomers & homologues shall be measured in both the combustion unit exhausts: 2,3,7,8 tetra CDF; total tetra CDF; 1,2,3,7,8 penta CDF; 2,3,4,7,8 penta CDF; total penta CDF; 1,2,3,4,7,8 hexa CDF; 1,2,3,6,7,8 hexa CDF; 1,2,3,7,8,9 hexa CDF; 2,3,4,6,7,8 hexa CDF; total hexa CDF; 1,2,3,4,6,7,8 hepta CDF; 1,2,3,4,7,8,9 hepta CDF; total hepta CDF; total octa CDF. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

86. The facility may elect to alternate Dioxin/Furan testing on each stack, if the previous two years indicate Dioxin/Furan emissions levels are less than or equal to 15 ng/dscm total mass, corrected to 12% CO2. [40 CFR 60.38b and District Rule 4102] Federally Enforceable Through Title V Permit

87. Performance tests of both combustion unit exhausts shall be performed for HCl, corrected to 12% CO2 on a dry basis, and for the following heavy metals, corrected to 12% CO2 on a dry basis: Antimony, Arsenic, Beryllium, Cadmium, Total Chromium (5% of the total chromium shall be considered to be hexavalent chromium), Copper, Lead, Manganese, Mercury, Nickel, Selenium, Vanadium, and Zinc. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

88. A performance test of both combustion unit exhausts shall be performed for HF, corrected to 12% CO2 on a dry basis. [District Rule 4102]

89. Cooling tower drift shall not exceed 0.005 percent of the circulating water flow or a maximum annual drift emission rate of 1,090,000 kg/year as demonstrated by design calculations. Chromium compounds shall not be used as an additive in the cooling tower water. [District Rule 4102]

90. Soot blowers or super heater rappers shall be operated in a mode consistent with normal cleaning requirements of the system during the performance tests. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

91. The facility shall submit an annual report in accordance with 40 CFR 60.59b(g) by February 1 of each year following the calendar year in which the data were collected. [40 CFR 60.39b] Federally Enforceable Through Title V Permit

92. The facility shall submit semiannual reports within 31 days following the end of each 6 month period in accordance with 40 CFR 60.59b(h). [40 CFR 60.39b] Federally Enforceable Through Title V Permit

93. A monthly report summarizing the quantity of pollutant emissions of SO2, NOx, and CO, based on data from the CEM system, shall be included in the information required by following condition. Copies of the monthly reports prepared pursuant to this condition shall be sent to the district office by the 15th day of the following month. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

94. Permittee shall maintain a complete file containing all measurements, records, required monitoring data and support information. Support information includes copies of all reports required by this permit and for continuous monitoring instrumentation, and all calibration and maintenance records. This file shall include, but not be limited to: (a) Data collected from in-stack monitoring instruments; (b) Input rate records for all fuels burned; (c) Purchase records that indicate the sulfur content, by weight, of all fuel oil #2 purchased; (d) Results of all source tests; (e) All other air pollution system performance evaluations and records of calibration checks, calibration gas cylinder changes, adjustments and maintenance performed on all equipment (including CEM adjustment or maintenance). [District Rule 1070, 4.0 & PSD SJ 86-03] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

95. Records shall be kept for each unit with the following: (a) Specific time of operation of each combustion unit; (b) Specific time of operation of the auxiliary burners; (c) Equipment breakdowns or malfunctions; (d) Exceedances of emission standards. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

96. The permittee shall follow all written maintenance procedures and schedules for the following: all emissions control equipment, combustion units, and monitoring equipment for measuring emission levels. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

97. Operating and maintenance manuals, subject to District review, shall be provided for the equipment covered by this permit. The permittee's operators shall be trained in the operation and maintenance of both fuel burning and pollution control equipment. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

98. If the Fuel Oil #2 is Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.25% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

99. If the Fuel Oil #2 is non-certified for sulfur content of less than 0.25% by weight, then the owner or operator shall determine the sulfur content of each delivery of Fuel Oil being fired. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

100. Permittee shall provide access to all sampling ports and platforms on boiler exhaust stacks in accordance with 40 CFR 60.8(e) and District Rule 1081 (as amended 12/16/93). [District Rule 1081, 3.3; & PSD SJ 86-03] Federally Enforceable Through Title V Permit

101. The SO2 emissions from both combustion units shall be more stringent of 35.6 lb/hr or 42 ppm, dry, corrected to 12% CO2, averaged over three hour period and more stringent of 33.3 lb/hr or 40 ppm, dry, corrected to 12% CO2, averaged over a 24 hour period. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

102. The NOx emissions from both combustion units shall be more stringent of 107 lb/hr or 175 ppm, dry, corrected to 12% CO2, averaged over three hour period and more stringent of 100 lb/hr or 165 ppm, dry, corrected to 12% CO2, averaged over a 24 hour period. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

103. The CO emissions from both combustion units shall be 33.3 lb/hr or 400 ppm, dry, corrected to 12% CO2 (3-hour average). [PSD SJ 86-03] Federally Enforceable Through Title V Permit

104. The Mercury emissions from both combustion units shall not exceed 0.083 lb/hr (3-hour average) as measured by EPA Method 101. Upon EPA approval of a change to the facility PSD permit allowing Method 29 to be used in place of Method 101, Method 29 may be used to measure Mercury emissions. (40 CFR Part 61, Appendix B). [PSD SJ 86-03] Federally Enforceable Through Title V Permit

105. Permittee shall submit a written report of all excess emissions to EPA (Attn: A-3-3) for every calendar quarter. The report shall include the following: (a) the magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions. (b) Specific identification of each time period of excess emissions that occurs during startups, shutdowns, and malfunctions of furnace/boiler system. The nature and cause of malfunction (if known) and corrective action taken or preventive measures adopted shall be reported. (c) The date and time identifying each period during which continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs and adjustments. (d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in report. (e) Excess emissions shall be defined as any three-hour period during which the average emissions of NOx, SO2, and/or CO, as measured by continuous monitoring system exceeds the NOx, SO2, and/or CO emission limit set for each of the pollutants. (f) Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for purposes of PSD permit. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

106. The calculation of annual emissions shall commence with the submission of the first fourth-quarter report, and will continue to be calculated and submitted with each successive quarterly report. The annual emissions shall be computed on a daily (i.e. 24 hours) basis and shall be running total of the latest 8,760 hours. The quarterly reports shall contain highest annual emissions computed for each week in the quarter, as well as all excesses of the annual emissions limits. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

107. Permittee shall meet all applicable requirements of Subparts A, Db, and E of 40 CFR 60. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

108. Permittee shall comply with following activated carbon mass feed requirements: (1) During the initial performance test and each subsequent performance test for dioxins/furans and mercury, as applicable, the permittee shall calculate and record an average carbon mass feed rate in pounds per hour being employed based on load cell measurements of carbon feed during the test; (2) During operation of the facility, the carbon injection mass feed rate must be measured using load cells, calculated and recorded on an eight (8) hour block average basis, and must equal or exceed the level(s) documented during the most recent performance tests for dioxins/furans and mercury. When calculating the eight (8) hour block average, exclude the hours when the combustion unit is not operational and include the hours when the combustion unit is operating but the carbon feed system is not working properly. [40 CFR 60.38b & 40 CFR 60.58b(m)(1), (2)] Federally Enforceable Through Title V Permit

109. The permittee shall estimate the total carbon usage of the plant (kilograms or pounds) for each calendar quarter by two independent methods, according to the following procedures: (1) The weight of carbon delivered to the plant. (2) The permittee shall estimate the average carbon mass feed rate for each during the operation of each combustion unit, and sum the results for both units at the plant for the total number of hours of operation during the calendar quarter. [40 CFR 60.38b & 40 CFR 60.58b(m)] Federally Enforceable Through Title V Permit

110. Should additional guidance related to the June 3, 1986 PSD remand, applicable to PSD permit action, be developed, the Permittee shall provide to EPA any such analysis, data, or demonstration of compliance with the other requirements within the time required by the guidance. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

111. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in Section VIII of these conditions. In addition, the Regional Administrator shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under Section IX of these conditions, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

112. Facility shall operate only when a fully certified chief facility operator or fully certified shift supervisor is on duty, except as allowed under 40 CFR 60.54b(c)(2). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

113. All chief facility operators, shift supervisors, and control room operators shall have completed the EPA or State municipal waste combustor operator training course. [40 CFR 60.35b] Federally Enforceable Through Title V Permit

114. Owner or operator shall conduct a performance test for opacity on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test, and must complete five performance tests in each 5-year calendar period) using EPA Method 9 and the average of three test runs to determine compliance. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

115. Permittee shall establish parameters for the differential pressure across the baghouse filter, which provides a reasonable assurance of ongoing compliance with emission limitations stated in this permit. The initial parameters shall be established using manufacturer/supplier recommendations and by correlating with opacity readings and source test results. These parameters shall be reviewed annually and revised if necessary based on PM10 source test result data, historical operating data and manufacturer/supplier recommendations. [40 CFR Part 64] Federally Enforceable Through Title V Permit

116. The baghouse differential operating pressure shall be monitored and recorded on each day the solid waste combustors/boilers operate. The permittee shall compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit

117. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

118. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit

119. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit

120. During any 96-hour periods of startup or 12-hour periods of shutdown, the facility shall be exempt from emission limits identified in this permit which are based upon District Rule 4352. [District Rule 4352] Federally Enforceable Through Title V Permit

121. Within 6 months of the renewed Title V permit being issued, permittee shall apply for an Authority to Construct (ATC) and fully implement one of the following: 1) modify post-control PM10 emissions rate to less than 70 tons/yr or 2) install on the baghouse an air leak detection system or continuous PM10 emissions monitor. [40 CFR Part 64] Federally Enforceable Through Title V Permit

122. Upon detecting any excursion from the 10% opacity limit, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit

123. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column [40 CFR Part 64] Federally Enforceable Through Title V Permit

124. The baghouse differential operating pressure shall be monitored and recorded on each day the solid waste combustors/boilers operate. The permittee shall compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit

125. On and after January 1, 2013, permittee shall demonstrate compliance with Table 1 emission limits and all applicable requirements of District Rule 4352 (December 15, 2011). [District Rule 4352] Federally Enforceable Through Title V Permit

126. Each time SO2 emissions from each combustion unit exceeds 30 ppmv, dry, corrected to 12% CO2, based on an eight-hour rolling average, facility shall demonstrate that SO2 removal efficiency is at least 80% as measured by EPA Methods 1-4 and 6C, based on the measurement of the inlet and outlet SO2 concentrations. [40 CFR Part 64]

Appendix III
Permit Application

San Joaquin Valley Air Pollution Control District

www.valleyair.org

Permit Application For:

[ ] ADMINISTRATIVE AMENDMENT [X] MINOR MODIFICATION [ ] SIGNIFICANT MODIFICATION

1. PERMIT TO BE ISSUED TO:
Covanta Stanislaus, Inc.

2. MAILING ADDRESS:

STREET/P.O. BOX: **P.O. Box 278**

CITY: **Crows Landing** STATE: **CA** 9-DIGIT ZIP CODE: **95313**

3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:

STREET: **4040 Fink Rd.** CITY: **Crows Landing**

NW ¼ SECTION **30** TOWNSHIP **6 south** RANGE **9 west**

INSTALLATION DATE:
Begin in the Spring of 2013 and complete in the Summer 2013

4. GENERAL NATURE OF BUSINESS: **Municipal Waste Combustor**

5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE
(include Permit #'s if known, and use additional sheets if necessary)

The Facility has applied for and received ATC N-2073-1-12 (attached) to include additional equipment to recover nonferrous metals from the ash residue. We are preparing to improve metal recovery by installing equipment to enable us to recover non-ferrous metal in the ash residue in the existing Ash Residue Building. The non-ferrous metal recovery equipment will not substantially change the current permitted activities at the site and will have no impact on operations at the Facility. We believe that the non-ferrous recovery equipment will upgrade the overall environmental performance of the Facility by allowing for the recovery of non-ferrous metal for recycling. Pursuant to Condition 1 of ATC No. N-2073-1-12, we are submitting this minor modification application to amend the Title V permit.

6. TYPE OR PRINT NAME OF APPLICANT:
Terry D. Coble

TITLE OF APPLICANT:
Environmental Specialist

7. SIGNATURE OF APPLICANT: Terry D. Coble DATE: 3-13-13

PHONE: (209) 837-4423 ext 211
FAX: (209) 837-4604
EMAIL: tcoble@covantaenergy.com

For APCD Use Only:

DATE STAMP: RECEIVED
MAR 18 2013
SJVAPCD
~~NORTHERN REGION~~

FILING FEE RECEIVED: $ 0 *CHECK#:*

DATE PAID:

PROJECT NO: N1130690 *FACILITY ID:* N-2073

San Joaquin Valley
Unified Air Pollution Control District

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

[ ] SIGNIFICANT PERMIT MODIFICATION
[X] MINOR PERMIT MODIFICATION
[ ] ADMINISTRATIVE AMENDMENT

COMPANY NAME: Covanta Stanislaus, Inc.	FACILITY ID: N-2073
1. Type of Organization:[X] Corporation [ ] Sole Ownership [ ] Government [ ] Partnership [ ] Utility	
2. Owner's Name: Covanta Stanislaus, Inc.	
3. Agent to the Owner: Jeff Ruoss	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

IR ○ Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).

IR ● Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.

IR ○ Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.

IR ○ Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Signature of Responsible Official — Date: 3/13/13

Jeff Ruoss

Name of Responsible Official (please print)

Facility Manager

Title of Responsible Official (please print)

Appendix IV
Emissions Change

Emissions Change

Emissions change under ATC project N-1123712 that resulted in ATC N-2073-1-12 is summarized in the following table.

Emissions Change			
Pollutant	**Annual PE2 (lb/yr)**	**Annual PE1 (lb/yr)**	**Quarterly IPE (lb/qtr)**
NOx	0	0	0
SOx	0	0	0
PM10	183	0	46
CO	0	0	0
VOC	0	0	0

Appendix V
Title V Permit to Operate N-2073-1-10

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-2073-1-10 **EXPIRATION DATE:** 10/31/2016

EQUIPMENT DESCRIPTION:
POWER GENERATION SYSTEM: TWO 400 TON/DAY MUNICIPAL SOLID WASTE COMBUSTOR/BOILERS PRODUCING 21.5 MW OF ELECTRICITY EQUIPPED WITH DRY LIME SCRUBBERS, FLY ASH BAGHOUSE, AMMONIA INJECTION SYSTEM, LIME SLURRY INJECTION, ACTIVATED CARBON INJECTION SYSTEM, LIME AND SODA AND CARBON SILOS WITH FILTER VENTS, WASTE RECEIVING, ASH CONVEYING, AND ASH RESIDUE ENCLOSURE

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities and systems installed or used to comply with the terms and conditions of this Permit to Operate shall be maintained in good working order and be operated as required to meet the conditions of this permit. Operator shall, on each boiler, continuously operate and maintain the following air pollution controls to minimize emissions: baghouse for the control of particulates; lime slurry dry scrubber for t he control of SO2 and acid gas emissions; and ammonia injection system for the control of NOx emissions. [District Rule 2080 & PSD SJ 86-03] Federally Enforceable Through Title V Permit
2. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
3. The baghouse shall have a maximum effective air-to-cloth ratio of 4:1 and shall be equipped with an automatic cleaning mechanism. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest individual combustion unit baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. There shall be no visible emissions from any location other than designated vents on refuse receiving, processing or storage buildings at any time, except as provided in this permit to operate. Visible emissions shall be inspected quarterly under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit
6. Paved areas shall be kept free of visible dust at all times and shall be vacuum swept at least once every fourteen days. Records of vacuum sweeping shall be maintained and made available to the District upon request. [District Rule 4102]
7. The NOx control system shall be in full use whenever this equipment is fired with MSW. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The ash shall be handled in such a manner as to mitigate fugitive emissions to the maximum extent possible. Enclosure shall be completely inspected annually for evidence of particulate matter leaks and repaired as needed. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit
9. The facility shall not cause visible emissions from ash conveying systems, including transfer points, in excess of 5% of the observation period, as determined by performing EPA Method 22 on a quarterly basis. Fugitive ash emissions do not include emissions within a building, an enclosed ash conveyor, or during periods of maintenance and repair of the ash conveyor systems. [40 CFR 60.36b] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

10. Fuel Oil #2, with a sulfur content not to exceed 0.25% by weight, may be used as necessary to maintain the minimum combustion zone temperature requirements and annual usage shall not exceed 1,108,321 gallons for each combustor. [District NSR Rule, 40 CFR 60. 44b(c) & PSD SJ 86-03] Federally Enforceable Through Title V Permit

11. A furnace roof temperature of 1,100 degrees F shall be stabilized, as measured by multiple thermocouples, to ensure that a minimum temperature of 1,800 degrees F is established above the grate prior to the ignition of MSW. [District NSR Rule] Federally Enforceable Through Title V Permit

12. During any period of time that MSW is burning on the grates, the combustion gas retention time shall be maintained at a minimum of one second, the combustion zone temperature shall be maintained at a minimum of 1,800 degrees F, and the furnace roof temperature shall be maintained at an average (4 hour arithmetic block) of 1,100 degrees F, except during periods of start-up, shutdown, and malfunction, as defined in 40 CFR 60.58b(a). [District NSR Rule] Federally Enforceable Through Title V Permit

13. Hazardous materials shall not be burned in this equipment. Hazardous materials are that portion of solid waste which, by reason of its composition or characteristics, is: (a) hazardous waste as defined in the Solid Waste Disposal Act, 42 USC section 6901 et. seq., and the regulations thereunder, the California Health & Safety Code, Div. 20, Chs. 6.5, 6.7, and 6.8 (section 25100 et. seq.), the California Code of Regulations, Title 22, Div. 4.5, and any similar or substituted legislation or regulations or amendments to the foregoing; (b) any other materials which any governmental agency or unit having appropriate jurisdiction shall determine from time to time is harmful, toxic, or dangerous, or otherwise ineligible for disposal through the facility; and (c) any material, other than residential or commercial solid waste of the type historically collected by the County and the City as acceptable for disposal into non-hazardous waste landfills, which would result in process residue being hazardous waste under (a) or (b) above. [District Rule 4102]

14. The facility shall develop and annually update a site-specific operating manual in accordance with 40 CFR 60.54b(e). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

15. Each operator and all maintenance personnel shall receive initial and annual training on the site-specific operating manual in accordance with 40 CFR 60.54b(f). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

16. The site-specific operating manual and operating manual training records shall be accessible to all operations and maintenance personnel and shall be made available to the enforcement agency upon request. [40 CFR 60.35b] Federally Enforceable Through Title V Permit

17. The District reserves the right to require the permittee to re-evaluate the health risk assessment if there is a significant change in population locations as projected in the currently approved health risk assessment, or new health data becomes available. [District Rule 4102]

18. During any 3-hour periods of startup, shutdown, and malfunction, the facility shall be exempt from emission limits identified in this permit which are based upon 40 CFR 60 Subpart Cb or Subpart Eb. This exemption shall not apply to CO emission limits of 40 CFR 60.53b(a) if the malfunction is a loss of boiler water level control. [District NSR Rule] Federally Enforceable Through Title V Permit

19. Opacity exhibited by the gases discharged to the atmosphere from each combustion unit, other than water vapor, shall not exceed 10 percent based on a six minute average as measured by EPA Method 9. [40 CFR 60.33b and 40 CFR Part 64] Federally Enforceable Through Title V Permit

20. The carbon monoxide (CO) emissions from each combustion unit shall not exceed 100 ppmv, dry, corrected to 7% O2, as measured utilizing EPA Methods 1-4 and 10. Compliance with this limit shall be determined based on a four hour block arithmetic average as defined in 40 CFR 60.51b. [District Rule 4352 and 40 CFR 60.34b] Federally Enforceable Through Title V Permit

21. The NOx emissions from each combustion unit shall not exceed 200 ppmv, dry, corrected to 12% CO2 as measured by EPA Methods 1-4 and 7E. Compliance with this limit shall be determined based on an eight rolling hour average. [District NSR Rule, District Rule 4352, and 40 CFR 60.33b] Federally Enforceable Through Title V Permit

22. Either the SO2 emissions from each combustion unit shall not exceed 30 ppmv, dry, corrected to 12% CO2, based on an eight hour rolling average, or the SO2 removal efficiency shall be at least 80% as measured by EPA Methods 1-4 and 6C. The SO2 80% removal efficiency shall be based on the measurement of the inlet and outlet SO2 concentrations, corrected to 12% CO2. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

23. The SO2 emissions from each combustion unit shall not exceed 29 ppmv, dry, corrected to 12% CO2, or the SO2 removal efficiency shall be at least 75% (by weight or volume), whichever is less stringent as measured by EPA Methods 1-4 and 6C. Compliance with this limit shall be determined based on a 24-hour daily geometric mean. EPA method 19 shall be used to calculate the daily geometric average sulfur dioxide emission concentration and removal efficiency. [40 CFR 60.33b] Federally Enforceable Through Title V Permit

24. Particulate matter emissions from each combustion unit shall not exceed 0.0275 gr/dscf, corrected to 12% CO2, as measured by EPA Methods 1 through 5, including the condensable portion in the "back-half". [District NSR Rule] Federally Enforceable Through Title V Permit

25. Filterable particulate matter (i.e. front half) emissions from each combustion unit shall not exceed any of the following emission limits: 0.011 gr/dscf, corrected to 12% CO2; 25 milligrams/dscf, corrected to 7% O2; 0.10 lb/MMBtu heat input. Owner or operator shall conduct a performance test for particulate matter on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test, and must complete five performance tests in each 5-year calendar period) with EPA Method 1; EPA Method 3, 3A, or 3B; and EPA Method 5. The minimum sample volume shall be 1.7 cubic meters. The probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 degrees C. An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 run. [District NSR Rule, 40 CFR 60.33b, 40 CFR 60.38b, and 40 CFR 60.43b(d)(1)] Federally Enforceable Through Title V Permit

26. Filterable particulate matter emissions from each combustion unit shall not exceed 0.008 gr/dscf, corrected to 12% CO2, for the fraction of particles less than 2u in diameter, as measured by Andersen Cascade Impactor, Flow Sensor Multiclone or any other equivalent measurement as validated by EPA Method 301. [District NSR Rule] Federally Enforceable Through Title V Permit

27. Each combustion unit shall only be allowed to emit half of the total allowable (mass) emission rate for each pollutant. [District NSR Rule] Federally Enforceable Through Title V Permit

28. The CO emissions shall not exceed 800 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

29. The CO emissions shall not exceed 121.9 tons/yr. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

30. The NOx emissions shall not exceed 2,260 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

31. The NOx emissions shall not exceed 344.4 tons/year. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

32. The SO2 emissions shall not exceed 800 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit

33. The SO2 emissions shall not exceed 121.9 tons/year. [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

34. The PM emissions shall not exceed 475 pounds in any one day. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation E=3.59xP^0.62 if P is less than or equal to 30 tons per hour, or E=17.37xP^0.16 if P is greater than 30 tons per hour. Particulate emissions shall be no more than 0.1 lbs per 100 lbs of combustible refuse charged. [District Rules NSR, 4202, and 4203, 4.3] Federally Enforceable Through Title V Permit

35. The PM emissions shall not exceed 72.4 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

36. Emissions of combustion contaminants from each fuel burning equipment unit shall not exceed 0.1 gr/dscf, corrected to 12% CO2, and 10 lb/hr. Combustion contaminants are defined as total PM (filterable plus condensable) minus the ammonium salts (e.g. ammonium chloride, ammonium sulfate, ammonium bisulfate, etc.) present in the condensable PM fraction. A "fuel burning equipment unit" is the minimum number of fuel burning equipment required to operate simultaneously for the production of useful heat. Compliance with this emission limit shall be demonstrated annually by source test conducted according to EPA Methods 5 and 202 (or other APCO approved methods). Ammonium salts in the condensable PM fraction shall be determined by analysis of the condensable PM fraction by ion chromatography (or other APCO approved method). [District Rule 4301] Federally Enforceable Through Title V Permit
37. The THC emissions shall not exceed 96 pounds in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
38. The THC emissions shall not exceed 14.6 tons/year. [District NSR Rule] Federally Enforceable Through Title V Permit
39. The THC emissions (as CH4) from each combustion unit shall not exceed 70 ppmv, dry, corrected to 12% CO2 as measured by EPA Methods 1-4 and 25A. [District NSR Rule] Federally Enforceable Through Title V Permit
40. Ammonia (NH3) breakthrough of the exhaust shall not exceed 50 ppmv, dry, as measured by BAAQMD Method ST-1B. The facility shall be exempt from this condition for periods of start-up, shutdown, and malfunction as defined in 40 CFR 60.58b(a). [District Rule 4102]
41. The Antimony emissions from each combustion unit shall not exceed 0.0315 g/s as measured by CARB Method 436. [District Rule 4102]
42. The Arsenic emissions from each combustion unit shall not exceed 0.0005 g/s as measured by CARB Method 436. [District Rule 4102]
43. The Beryllium emissions from each combustion unit shall not exceed 0.00005 g/s as measured by CARB Method 436. [District Rule 4102]
44. The Cadmium emissions from each combustion unit shall not exceed either of the following: 0.0013 g/s; 0.035 milligrams/dscf, corrected to 7% O2; each as measured by EPA Methods 1, 3, and 29 [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit
45. The Chromium +6 emissions from each combustion unit shall not exceed 0.00005 g/s as measured by CARB Method 436 (5% of the total chromium shall be considered to be hexavalent chromium). [District Rule 4102]
46. The Copper emissions from each combustion unit shall not exceed 0.155 g/s as measured by CARB Method 436. [District Rule 4102]
47. The Dioxin/Furan emissions from each combustion unit shall not exceed 30 ng/dscm (total mass), corrected to 7% O2, as measured by EPA Method 23. [40 CFR 60.33b] Federally Enforceable Through Title V Permit
48. The Dioxin/Furan emissions from each combustion unit shall not exceed 50 ng/s, based on the Department of Health Services toxic equivalent calculation. [District Rule 4102]
49. The Hydrogen Fluoride (HF) emissions from each combustion unit shall not exceed 0.05 g/s as measured by EPA Method 26. [District Rule 4102]
50. The Hydrogen Chloride (HCl) emissions from each combustion unit shall not exceed either of the following: 1.4 g/s; 29 ppmv or the HCl removal efficiency shall be at least 95% (by weight or volume), whichever is less stringent, corrected to 7% O2; each as measured by EPA Method 26. [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit
51. The Lead emissions from each combustion unit shall not exceed either of the following: 0.014 g/s; 0.400 milligrams/dscf, corrected to 7% O2; each as measured by EPA Methods 1, 3, and 29. [40 CFR 60.33b and District Rule 4102] Federally Enforceable Through Title V Permit
52. The Manganese emissions from each combustion unit shall not exceed 0.055 g/s as measured by CARB Method 436. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

53. The Mercury emissions from each combustion unit shall not exceed 0.050 mg/dscm, corrected to 7% O2, or the mercury removal efficiency shall be at least 85% by weight, whichever is less stringent, as measured by EPA Methods 1, 3, and 29. [40 CFR 60.33b] Federally Enforceable Through Title V Permit

54. The Mercury emissions from each combustion unit shall not exceed 0.0025 g/s (3-hour average). [PSD ATC SJ 86-03 and District Rule 4102] Federally Enforceable Through Title V Permit

55. The Nickel emissions from each combustion unit shall not exceed 0.025 g/s as measured by CARB Method 436. [District Rule 4102]

56. The Selenium emissions from each combustion unit shall not exceed 0.055 g/s as measured by CARB Method 436. [District Rule 4102]

57. The Vanadium emissions from each combustion unit shall not exceed 0.15 g/s as measured by CARB Method 436. [District Rule 4102]

58. The Zinc emissions from each combustion unit shall not exceed 0.315 g/s as measured by CARB Method 436. [District Rule 4102]

59. The mass emission rates shall be calculated from the hourly stack concentrations and the volumetric flow rate using municipal solid waste Carbon Dioxide based F-factor of 1820 dscf/MMBtu (EPA Method 19, Table 19-2). [District NSR Rule & PSD SJ 86-03] Federally Enforceable Through Title V Permit

60. The total steam generated from each boiler shall not exceed 110% of the maximum demonstrated combustion unit load achieved in the most recent Dioxin/Furan performance test, as defined in 40 CFR 60.51b. [40 CFR 60.34b(b)] Federally Enforceable Through Title V Permit

61. The maximum flue gas temperature, measured at the particulate matter control device inlet from each boiler, shall not be higher than 17 deg. C (31 deg. F) above the maximum demonstrated particulate matter control device temperature as defined in 40 CFR 60.51b. [40 CFR 60.34b(b)] Federally Enforceable Through Title V Permit

62. The steam load and particulate matter control device inlet flue gas temperature limitations shall apply at all times except during the annual Dioxin/Furan performance test, the two weeks preceding the annual Dioxin/Furan performance test, and when the facility obtains a waiver in accordance with permission granted by the Administrator or the Air Pollution Control Officer. [40 CFR 60.53b(b)] Federally Enforceable Through Title V Permit

63. The ammonia (NH3) injection rate shall be measured and recorded continuously. [District NSR Rule] Federally Enforceable Through Title V Permit

64. The facility shall install, calibrate, maintain, and operate a carbon dioxide CEM at the economizer and stack locations of each combustion unit, in accordance with 40 CFR 60.58b(b) and Appendices B and F. [40 CFR 60.38b and District Rule 4352] Federally Enforceable Through Title V Permit

65. The facility shall install, calibrate, maintain, and operate a continuous opacity monitoring system in accordance with 40 CFR 60.13 and Appendix B. [40 CFR 60.38b and 40 CFR Part 64] Federally Enforceable Through Title V Permit

66. The facility shall install, calibrate, maintain, and operate a sulfur dioxide CEM at the stack locations in accordance with 40 CFR 60.58b(e) and Appendices B and F. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

67. The facility shall install, calibrate, maintain, and operate a nitrogen oxides CEM at the stack locations in accordance with 40 CFR 60.58b(h) and Appendices B and F. [40 CFR 60.38b and District Rule 4352] Federally Enforceable Through Title V Permit

68. The facility shall install, calibrate, maintain, and operate a carbon monoxide CEM at the stack locations in accordance with 40 CFR 60.58b(i) and Appendices B and F. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

69. The facility shall install, calibrate, maintain, and operate a continuous steam flow monitoring and recording device and a device to measure temperature at the inlet of each particulate matter control device in accordance with 40 CFR 60.58b(i). [40 CFR 60.38b] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

70. The permittee shall be responsible for providing the District access, via telemetry, to the stored computerized data associated with the continuous emission monitoring system. [District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

71. Continuous monitoring and recording equipment shall be provided for the following: No. 2 fuel oil burning rate and temperature. Each combustion unit shall have sufficient monitors to demonstrate combustion unit temperature profile as required in condition 12 and flue gas temperature into the particulate matter control device as required by condition 61. [District Rule 1080, 7.0] Federally Enforceable Through Title V Permit

72. In the event that monitoring or test data show that emissions from the facility exceed any emission limitation conditions of this Permit to Operate, the permittee shall take immediate corrective action to bring the plant's emissions within these limitations. [District NSR Rule] Federally Enforceable Through Title V Permit

73. Emissions in excess of those allowed by this permit shall be cause for the District to order an immediate reduction in fuel feed rate or to take other appropriate abatement action. [District Rule 2080] Federally Enforceable Through Title V Permit

74. The permittee shall notify the District of any emission violation by the next working day after such violation has occurred. [District Rule 2080] Federally Enforceable Through Title V Permit

75. Performance testing to demonstrate compliance with permit conditions shall be conducted annually (at least every calender year but no later than 12 months from previous performance testing). The main exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples using approved test methods. [District Rule 1081, 3.0, 4.0 & PSD SJ 86-03] Federally Enforceable Through Title V Permit

76. Performance testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any performance test, and a test plan must be submitted for approval 15 days prior to testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit

77. The results of each performance test shall be submitted to the District within 60 days thereafter. [District Rule 1081, 7.3] Federally Enforceable Through Title V Permit

78. Performance tests shall include a test of both combustion unit exhausts following the baghouse for the following parameters, corrected to 12% CO2 on a dry basis: Oxides of nitrogen emissions; Total hydrocarbons, as methane; Carbon monoxide; Sulfur dioxide; Concentrations of gaseous ammonia (NH3); and Exhaust flow rate, wet and dry. [District Rule 1081, 4.0]

79. Performance tests shall include: Total particulate matter emission concentration corrected to 12% CO2 and shall be conducted including the condensable portion in the "back half"; and Filterable particulate matter emission concentration corrected to 12% CO2 and shall be conducted including only "front-half". If the measured Filterable particulate matter emission concentration is greater than 0.008 gr/dscf, corrected to 12% CO2, testing shall be conducted to verify compliance with condition 26. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

80. Performance tests shall include a test of both combustion unit exhausts following the baghouse for the following parameters, corrected to 12% CO2 on a dry basis: Polynuclear aromatic hydrocarbons (Benzo-A-Pyrene, Benzo-E-Pyrene, Benzo-A-Anthracene, and Coronene and PCB); and Dioxins and Furans. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

81. The following Dioxin isomers & homologues shall be measured in both the combustion unit exhausts: 2,3,7,8 tetra CDD; total tetra CDD; 1,2,3,7,8 penta CDD; total penta CDD; 1,2,3,4,7,8 hexa CDD; 1,2,3,6,7,8 hexa CDD; 1,2,3,7,8,9 hexa CDD; total hexa CDD; 1,2,3,4,6,7,8 hepta CDD; total hepta CDD; total octa CDD. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

82. The following Furan isomers & homologues shall be measured in both the combustion unit exhausts: 2,3,7,8 tetra CDF; total tetra CDF; 1,2,3,7,8 penta CDF; 2,3,4,7,8 penta CDF; total penta CDF; 1,2,3,4,7,8 hexa CDF; 1,2,3,6,7,8 hexa CDF; 1,2,3,7,8,9 hexa CDF; 2,3,4,6,7,8 hexa CDF; total hexa CDF; 1,2,3,4,6,7,8 hepta CDF; 1,2,3,4,7,8,9 hepta CDF; total hepta CDF; total octa CDF. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

83. The facility may elect to alternate Dioxin/Furan testing on each stack, if the previous two years indicate Dioxin/Furan emissions levels are less than or equal to 15 ng/dscm total mass, corrected to 12% CO2. [40 CFR 60.38b and District Rule 4102] Federally Enforceable Through Title V Permit

84. Performance tests of both combustion unit exhausts shall be performed for HCl, corrected to 12% CO2 on a dry basis, and for the following heavy metals, corrected to 12% CO2 on a dry basis: Antimony, Arsenic, Beryllium, Cadmium, Total Chromium (5% of the total chromium shall be considered to be hexavalent chromium), Copper, Lead, Manganese, Mercury, Nickel, Selenium, Vanadium, and Zinc. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

85. A performance test of both combustion unit exhausts shall be performed for HF, corrected to 12% CO2 on a dry basis. [District Rule 4102]

86. Cooling tower drift shall not exceed 0.005 percent of the circulating water flow or a maximum annual drift emission rate of 1,090,000 kg/year as demonstrated by design calculations. Chromium compounds shall not be used as an additive in the cooling tower water. [District Rule 4102]

87. Soot blowers or super heater rappers shall be operated in a mode consistent with normal cleaning requirements of the system during the performance tests. [District Rule 1081, 4.0] Federally Enforceable Through Title V Permit

88. The facility shall submit an annual report in accordance with 40 CFR 60.59b(g) by February 1 of each year following the calendar year in which the data were collected. [40 CFR 60.39b] Federally Enforceable Through Title V Permit

89. The facility shall submit semiannual reports within 31 days following the end of each 6 month period in accordance with 40 CFR 60.59b(h). [40 CFR 60.39b] Federally Enforceable Through Title V Permit

90. A monthly report summarizing the quantity of pollutant emissions of SO2, NOx, and CO, based on data from the CEM system, shall be included in the information required by following condition. Copies of the monthly reports prepared pursuant to this condition shall be sent to the district office by the 15th day of the following month. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

91. Permittee shall maintain a complete file containing all measurements, records, required monitoring data and support information. Support information includes copies of all reports required by this permit and for continuous monitoring instrumentation, and all calibration and maintenance records. This file shall include, but not be limited to: (a) Data collected from in-stack monitoring instruments; (b) Input rate records for all fuels burned; (c) Purchase records that indicate the sulfur content, by weight, of all fuel oil #2 purchased; (d) Results of all source tests; (e) All other air pollution system performance evaluations and records of calibration checks, calibration gas cylinder changes, adjustments and maintenance performed on all equipment (including CEM adjustment or maintenance). [District Rule 1070, 4.0 & PSD SJ 86-03] Federally Enforceable Through Title V Permit

92. Records shall be kept for each unit with the following: (a) Specific time of operation of each combustion unit; (b) Specific time of operation of the auxiliary burners; (c) Equipment breakdowns or malfunctions; (d) Exceedances of emission standards. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

93. The permittee shall follow all written maintenance procedures and schedules for the following: all emissions control equipment, combustion units, and monitoring equipment for measuring emission levels. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

94. Operating and maintenance manuals, subject to District review, shall be provided for the equipment covered by this permit. The permittee's operators shall be trained in the operation and maintenance of both fuel burning and pollution control equipment. [District Rule 1070, 4.0] Federally Enforceable Through Title V Permit

95. If the Fuel Oil #2 is Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.25% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

96. If the Fuel Oil #2 is non-certified for sulfur content of less than 0.25% by weight, then the owner or operator shall determine the sulfur content of each delivery of Fuel Oil being fired. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

97. Permittee shall provide access to all sampling ports and platforms on boiler exhaust stacks in accordance with 40 CFR 60.8(e) and District Rule 1081 (as amended 12/16/93). [District Rule 1081, 3.3; & PSD SJ 86-03] Federally Enforceable Through Title V Permit

98. The SO2 emissions from both combustion units shall be more stringent of 35.6 lb/hr or 42 ppm, dry, corrected to 12% CO2, averaged over three hour period and more stringent of 33.3 lb/hr or 40 ppm, dry, corrected to 12% CO2, averaged over a 24 hour period. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

99. The NOx emissions from both combustion units shall be more stringent of 107 lb/hr or 175 ppm, dry, corrected to 12% CO2, averaged over three hour period and more stringent of 100 lb/hr or 165 ppm, dry, corrected to 12% CO2, averaged over a 24 hour period. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

100. The CO emissions from both combustion units shall be 33.3 lb/hr or 400 ppm, dry, corrected to 12% CO2 (3-hour average). [PSD SJ 86-03] Federally Enforceable Through Title V Permit

101. The Mercury emissions from both combustion units shall not exceed 0.083 lb/hr (3-hour average) as measured by EPA Method 101. Upon EPA approval of a change to the facility PSD permit allowing Method 29 to be used in place of Method 101, Method 29 may be used to measure Mercury emissions. (40 CFR Part 61, Appendix B). [PSD SJ 86-03] Federally Enforceable Through Title V Permit

102. Permittee shall submit a written report of all excess emissions to EPA (Attn: A-3-3) for every calendar quarter. The report shall include the following: (a) the magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions. (b) Specific identification of each time period of excess emissions that occurs during startups, shutdowns, and malfunctions of furnace/boiler system. The nature and cause of malfunction (if known) and corrective action taken or preventive measures adopted shall be reported. (c) The date and time identifying each period during which continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs and adjustments. (d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in report. (e) Excess emissions shall be defined as any three-hour period during which the average emissions of NOx, SO2, and/or CO, as measured by continuous monitoring system exceeds the NOx, SO2, and/or CO emission limit set for each of the pollutants. (f) Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for purposes of PSD permit. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

103. The calculation of annual emissions shall commence with the submission of the first fourth-quarter report, and will continue to be calculated and submitted with each successive quarterly report. The annual emissions shall be computed on a daily (i.e. 24 hours) basis and shall be running total of the latest 8,760 hours. The quarterly reports shall contain highest annual emissions computed for each week in the quarter, as well as all excesses of the annual emissions limits. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

104. Permittee shall meet all applicable requirements of Subparts A, Db, and E of 40 CFR 60. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

105. Permittee shall comply with following activated carbon mass feed requirements: (1) During the initial performance test and each subsequent performance test for dioxins/furans and mercury, as applicable, the permittee shall calculate and record an average carbon mass feed rate in pounds per hour being employed based on load cell measurements of carbon feed during the test; (2) During operation of the facility, the carbon injection mass feed rate must be measured using load cells, calculated and recorded on an eight (8) hour block average basis, and must equal or exceed the level(s) documented during the most recent performance tests for dioxins/furans and mercury. When calculating the eight (8) hour block average, exclude the hours when the combustion unit is not operational and include the hours when the combustion unit is operating but the carbon feed system is not working properly. [40 CFR 60.38b & 40 CFR 60.58b(m)(1), (2)] Federally Enforceable Through Title V Permit

106. The permittee shall estimate the total carbon usage of the plant (kilograms or pounds) for each calendar quarter by two independent methods, according to the following procedures: (1) The weight of carbon delivered to the plant. (2) The permittee shall estimate the average carbon mass feed rate for each during the operation of each combustion unit, and sum the results for both units at the plant for the total number of hours of operation during the calendar quarter. [40 CFR 60.38b & 40 CFR 60.58b(m)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

107. Should additional guidance related to the June 3, 1986 PSD remand, applicable to PSD permit action, be developed, the Permittee shall provide to EPA any such analysis, data, or demonstration of compliance with the other requirements within the time required by the guidance. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

108. The Regional Administrator shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in Section VIII of these conditions. In addition, the Regional Administrator shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under Section IX of these conditions, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 86-03] Federally Enforceable Through Title V Permit

109. Facility shall operate only when a fully certified chief facility operator or fully certified shift supervisor is on duty, except as allowed under 40 CFR 60.54b(c)(2). [40 CFR 60.35b] Federally Enforceable Through Title V Permit

110. All chief facility operators, shift supervisors, and control room operators shall have completed the EPA or State municipal waste combustor operator training course. [40 CFR 60.35b] Federally Enforceable Through Title V Permit

111. Owner or operator shall conduct a performance test for opacity on a calendar year basis (no less than 9 calendar months and no more than 15 calendar months following the previous performance test, and must complete five performance tests in each 5-year calendar period) using EPA Method 9 and the average of three test runs to determine compliance. [40 CFR 60.38b] Federally Enforceable Through Title V Permit

112. Permittee shall establish parameters for the differential pressure across the baghouse filter, which provides a reasonable assurance of ongoing compliance with emission limitations stated in this permit. The initial parameters shall be established using manufacturer/supplier recommendations and by correlating with opacity readings and source test results. These parameters shall be reviewed annually and revised if necessary based on PM10 source test result data, historical operating data and manufacturer/supplier recommendations. [40 CFR Part 64] Federally Enforceable Through Title V Permit

113. The baghouse differential operating pressure shall be monitored and recorded on each day the solid waste combustors/boilers operate. The permittee shall compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR Part 64] Federally Enforceable Through Title V Permit

114. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit

115. If the District or EPA determine that a Quality improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit

116. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit

117. During any 96-hour periods of startup or 12-hour periods of shutdown, the facility shall be exempt from emission limits identified in this permit which are based upon District Rule 4352. [District Rule 4352] Federally Enforceable Through Title V Permit

118. Within 6 months of the renewed Title V permit being issued, permittee shall apply for an Authority to Construct (ATC) and fully implement one of the following: 1) modify post-control PM10 emissions rate to less than 70 tons/yr or 2) install on the baghouse an air leak detection system or continuous PM10 emissions monitor. [40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

119. Upon detecting any excursion from the 10% opacity limit, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit

120. The baghouse shall operate at all times with a minimum differential pressure of 2 inches water column and a maximum differential pressure of 10 inches water column [40 CFR Part 64] Federally Enforceable Through Title V Permit

121. The baghouse differential operating pressure shall be monitored and recorded on each day the solid waste combustors/boilers operate. The permittee shall compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. Corrective action shall include the following: inspecting the dust collector system for any tears, abrasions, or holes in the filters; inspecting closed duct systems for damage; and repairing or replacing any defective or damaged material. [40 CFR Part 64] Federally Enforceable Through Title V Permit

122. On and after January 1, 2013, permittee shall demonstrate compliance with Table 1 emission limits and all applicable requirements of District Rule 4352 (December 15, 2011). [District Rule 4352] Federally Enforceable Through Title V Permit

123. Each time SO2 emissions from each combustion unit exceeds 30 ppmv, dry, corrected to 12% CO2, based on an eight-hour rolling average, facility shall demonstrate that SO2 removal efficiency is at least 80% as measured by EPA Methods 1-4 and 6C, based on the measurement of the inlet and outlet SO2 concentrations. [40 CFR Part 64]